KDE Career Pathway
Information Technology
2012-2013

Career Pathway	Recommended Courses	Elective Courses

Computer Programming
CIP 11.0201
 	
Tests for Certification:
 	
• CompTIA Strata IT Fundamentals
• CompTIA
  • A + (701 and 702)
  • Network +
  • Security +
  • Server +
  • Linux +
• Microsoft Technology Associate
• Sun Certified Java Associate
• Sun Certified Java Professional
• Adobe Certified Expert
• Adobe Certified Associate (ACA)
  • Dreamweaver
  • Flash
  • Photoshop
  • KOSSA Communications (2012 - 2013)
  • KOSSA Programming (2013-2014
	1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA
	
	2) Introduction to Programming
	
	3) Program Design
	
	4) Special Topics in Programming i.e. possibly a specific Programming Language (Java, C++, Visual Basic)
		1) Computer Applications focus on IC3 or STRATA, not on MOS
		
		2) CompTIA A+
		
		3) Computer Essentials
		
		4) Web Page Development
		
		5) Internet Technologies
		
		6) Computational Thinking
		
		7) AP Computer Science

Web Development/Administration CIP 11.0801		

Tests for Certification:
 	
• CompTIA
   • A + (701 and 702)
   • Network +
   • Security +
   • Server +
   • Linux +
• CompTIA Strata IT Fundamentals
• Adobe Certified Associate
   • Dreamweaver
   • Flash
   • Photoshop
• Adobe Certified Expert
• CIW Foundations
• CIW Web Associate
• CIW Internet Business Foundations
• CIW Site Development Foundations
• CIW Network Technology Foundations
• Internet and Computing Core Certification (IC3-3 Exams Required)
   • Computer Fundamentals
   • Key Applications
   • Living Online
• Microsoft Technology Associate
• WOW Certified Associate Webmaster (CAW)
• Certified Web Administrator Apprentice (CWAA)
Certified Web Designer Apprentice (CWDSA)
 	
KOSSA Communications-2012-2013
 	
KOSSA Web Design – 2013-2014
	1) Computer Literacy IT Fundamentals of IC3
	
	2) Web Page Development
	
	3) Web Site Design and Production
	
	4) Special Topics in Web Design
		1) Computer Applications focus on IC3 or STRATA, not MOS
		
		2) CompTIA A+
		
		3) Computer Essentials
		
		4) Computational Thinking
		
		5) Internet Technologies
		
		6) Introduction to Programming

Geographic Information Systems
CIP 45.0702
 	
Tests for Certification:
 	
- CompTIA Strata IT Fundamentals
- CompTIA
  - A + (701 and 702)
  - Linux +
  - Network +
  - Security +
  Server +
 	
KOSSA Communications
	1) Computer Literacy IT Strata Fundamentals
	
	2) Introduction to GIS
	
	3) GIS Software Tools
	
	4) Advanced GIS/Selected Topic in GIS
		1) Program Design
		
		2) Computer Essentials
		
		3) Computational Thinking
		
		4) Internet Technologies

Information Support and Services
CIP 47.0104
 	
Tests for Certification:
 	
- CompTIA
  - A + (701 and 702)
  - Linux +
  - Network +
  - Security +
  - Server +
- CompTIA Strata IT Fundamentals
- Help Desk Institute (HDI)
  - Customer Service Representative
  - Support Center Analyst
  - Desktop Support Technician
  - Support Center Team Lead
  - Support Center Manager
  - Support Center Director
  - Knowledge Center Support Principles
- Internet and Computing Core Certification (IC3-3 Exams Required)
  - Computer Fundamentals
  - Key Applications
Living Online
 	
KOSSA Communications (2012-2013)
KOSSA Computer Technician (2013-2014)
	1) Computer Literacy IT Fundamentals of IC3 Fundamentals of STRATA
	
	2) CompTIA A+
	
	3) Help Desk Operations
	
	4) Help Desk II or other elective course on the list
		1) Computer Applications focus on IC3 or STRATA Fundamentals
		
		2) Computer Essentials
		
		3) Computer Hardware & Software
		
		4) Help Desk II (Advanced)
		
		5) Computer Systems
		
		6) Security Fundamentals
		
		7) Special Topics in Information Support and Services
		
		8) Computer Maintenance and Support Services
		
		9) Internet Technologies
		
		10) Program Design

| **Network Administration**
 MCSA
 Cisco
 Security
 CIP 11.0901

 Tests for Certification:

 • CompTIA Strata IT Fundamentals
 • CompTIA
   • A + (701 and 702)
   • Network +
   • Security +
   • Server +
   • Linux +
 • Novell Certified Linux Professional
 • Novell Certified Administrator
 • Microsoft Technology Associate (MTA)
 • Microsoft Certified Technology Specialist (MCTS)
 • Cisco Certified Entry Network *Technician* (CCENT)
 Cisco Certified Network Associate (CCNA)

 KOSSA Communications (2012-2013)
 KOSSA Networking (2013-2014) | 1) Computer Literacy IT Fundamentals/STRATA

 2) CompTIA A+

 3) Network A+

 4) Special Topics in Networking | 1) Computer Applications focus on STRATA Fundamentals

 2) Computer Essentials

 3) Internet Technologies

 4) Introduction to Networking

 5) Server +

 6) Security +

 7) Cisco 1 – 4 Courses |

Informatics **CIP – Use either Computer Programming or Information Support and Services** *Tests for Certification:* *KOSSA Communications*	1) Connecting to the Digital World 2) Designing the Digital World 3) Building the Digital World 4) Managing the Digital World	1) Computer Applications focus on IC3 Fundamentals 2) AP Computer Science 3) CompTIA A+ 4) Computer Essentials 5) AP Psychology 6) Computational Thinking 7) Internet Technologies
NEW – 2013-2014 **Digital Design/Gaming** **CIP 36.0113** *Tests for Certification:* *KOSSA Communications*	1) Graphic Design 2) Digital Applications 3) Digital Forensics 4) Computer Gaming	1) Computer Applications focus on IC3 Fundamentals 2) Computer Literacy IT 3) Introduction to Programming 4) Web Page Design 5) Database Design 6) Digital Video Production 7) CompTIA A+ 8) Computer Essentials 9) Computational Thinking 10) Internet Technologies